

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number
WO 2004/046670 A1

(51) International Patent Classification⁷: **G01J 3/52, 3/46**

(21) International Application Number:

PCT/EP2003/012386

(22) International Filing Date:

6 November 2003 (06.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02405985.9 15 November 2002 (15.11.2002) EP

(71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICAL HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MÄGLISCHMITZ, Ingrid [DE/CH]; Stallenrain 4, CH-4103 Bottmingen (CH). KLUMB, Harald [DE/DE]; Badstrasse 8, 79541 Lörrach (DE).**

(74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDING INC.; Patentabteilung, Klybeckstrasse 141, CH-4057 Basel (CH).**

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/046670 A1

(54) Title: METHOD FOR THE PRODUCTION OF A DIGITAL COLOUR CATALOGUE

(57) Abstract: A method for the production of a digital colour catalogue, which comprises a) drawing up a requirement profile for the desired dyeing, b) selecting a group of dyes that meet the requirement profile that has been drawn up, c) determining within the colour space the colour position of the said dyes for the desired dyeing, d) segmenting the colour space of the dyes within a depth of shade plane into triangular areas according to shade, wherein the corner points of the triangular areas correspond to the colour position of the dyes in question, and the said dyes define a range of shades delimited by the triangular areas, e) dividing the triangular areas within a depth of shade plane arithmetically into a grid in such a manner that the points of intersection of the grid are distributed evenly over the triangular areas, where the points of intersection of the grid correspond to a colour position and a reflectance curve calculated on the basis of a dye recipe is associated with each of those colour positions, and f) if desired visualising the reflectance curves associated with the colour positions by means of a suitable medium, is suitable for providing a comprehensive catalogue of different shades together with the associated dye recipes.